



Certified Natural Gas Professional (CNGP)

04 - 08 Jan 2027
Barcelona (Spain)



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Ref.: 16281_1013928 **Date:** 04 - 08 Jan 2027 **Location:** Barcelona (Spain) **Fees:** 6200 **Euro**

Introduction:

The Certified Natural Gas Professional CNGP course provides an in-depth understanding of natural gas regulation, market dynamics, and operational practices. Participants will explore the complete natural gas value chain from upstream exploration to downstream distribution. It highlights technical, commercial, and regulatory aspects that influence decisions in the gas industry.

This Certified Natural Gas Professional CNGP program equips professionals with actionable skills to excel in the natural gas sector. It covers contract management, tariff design, and dispute resolution mechanisms. Safety, environmental compliance, and emerging trends will prepare professionals for evolving challenges. Participants will gain practical insights into the international gas trade and digital transformation in gas operations.

Targeted Groups:

This Certified Natural Gas Professional CNGP training targets professionals seeking specialized knowledge and skills:

- Gas industry engineers and technical specialists.
- Regulatory and compliance officers.
- Pipeline and LNG operations managers.
- Energy market analysts and economists.
- Contract and commercial managers.
- Environmental and safety professionals.
- Renewable natural gas and hydrogen project developers.
- Policy makers and government energy regulators.
- Consultants and advisors in gas sector projects.
- Professionals aiming for career advancement in natural gas markets.

Targeted Competencies:

Participants will gain the following competencies during the Certified Natural Gas Professional CNGP program:

- Comprehensive understanding of natural gas markets and value chains.
- Technical proficiency in gas processing, measurement, and quality control.
- Expertise in gas contract negotiation and management.
- Ability to analyze pricing models and commercial strategies.
- Knowledge of safety protocols, risk assessment, and emergency response.
- Familiarity with environmental regulations and ESG standards.
- Understanding of national and international regulatory frameworks.
- Awareness of emerging technologies and sustainable gas solutions.
- Capability to apply digital tools for monitoring and operational efficiency.
- Competence in dispute resolution and stakeholder communication.
- Practical skills for decision-making and leadership in gas operations.

Course Objectives:

Participants will achieve the following objectives by completing the Certified Natural Gas Professional CNGP course:

- Understand global and regional natural gas markets.
- Analyze upstream, midstream, and downstream operations.
- Classify natural gas types and comprehend physical properties.
- Evaluate gas quality and measurement techniques.
- Apply pricing mechanisms and contractual structures effectively.
- Interpret gas sales and transportation agreements.
- Manage take-or-pay clauses, nominations, and balancing.
- Implement safety, risk, and environmental management practices.
- Navigate regulatory frameworks and industry standards.
- Monitor gas quality compliance and reporting obligations.
- Explore renewable gas, hydrogen blending, and energy transition trends.
- Integrate digital technologies like IoT, AI, and SCADA into gas operations.
- Develop practical solutions for operational, commercial, and regulatory challenges.
- Strengthen decision-making in complex market and policy environments.
- Prepare for leadership roles in natural gas and energy projects.

Course Content:

Unit 1: Introduction to the Natural Gas Industry and Value Chain:

- Role of Natural Gas in the global and regional energy mix.
- Types and Classifications: dry gas, wet gas, LNG, and CNG.
- Physical Properties and Combustion Characteristics Affecting Efficiency and Safety.
- Key Players and Stakeholders: producers, transporters, regulators, and consumers.
- The Natural Gas Value Chain:
 - Upstream - exploration, drilling, and production basics.
 - Midstream - transmission pipelines, LNG, compression, and storage.
 - Downstream - distribution for industrial, commercial, and residential use.
- Technical and Commercial Aspects that drive operations and market decisions.

Unit 2: Gas Processing, Quality, and Measurement:

- Gas treatment and conditioning processes.
- Quality specifications: heating value, contaminants, Wobbe index.
- Measurement units and conversions Sm³, MMBtu, SCF, GJ.
- Metering technologies: turbine, ultrasonic, orifice.
- Gas quantity verification and reconciliation exercises.

Unit 3: Gas Economics and Contracts:

- Pricing mechanisms oil-linked, hub-based, spot.
- Gas Sales Agreements GSA and Transportation Agreements GTA.
- Take-or-pay clauses, nominations, and balancing.
- NG contract structures.
- Activity: Pricing simulation and simple contract review.

- Safety, Regulations & Outlook.

Unit 4: Safety, Risk, and Environmental Management:

- Gas hazards and risk controls.
- Leak detection and emergency response procedures.
- PPE, permit-to-work, and confined space safety.
- Environmental compliance and ESG best practices.

Unit 5: Regulations & Standards:

- National and international regulatory frameworks.
- Standards: API, ISO, ASME, AGA.
- Gas quality compliance reporting.

Unit 6: Future of Natural Gas:

- Renewable natural gas RNG and biomethane.
- Hydrogen blending.
- CCUS and the energy transition role.
- Digital technologies in gas operations IoT, AI, and SCADA.

Final Insights & Key Takeaways:

The Certified Natural Gas Professional CNGP course equips participants with technical, commercial, and regulatory expertise. Professionals gain practical skills to navigate complex gas markets and policies. Safety, environmental compliance, and emerging trends. They will learn leadership roles and decision-making in the evolving natural gas sector.



Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

**Registration form on the :
Certified Natural Gas Professional (CNGP)**

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